EFFICIENT AND HEALTHY SCHOOLS

U.S. Department of Energy and Lawrence Berkeley National Laboratory

2022/23 Efficient and Healthy Schools

Decarbonization

November 15th 10:00 am Pacific | 1:00 pm Eastern

Registration Link

Contact: EHSC@lbl.gov

Webinar Objectives

Paul Torcellini will discuss resources for decarbonization of existing schools, including tools and guides from DOE's Better Buildings Initiative, along with practical examples from school districts. Paul will highlight: Decarbonization of HVAC and Water Heating in Commercial Buildings guidance, action plans from a low carbon pilot project, strategic electrification pathways, and more. Additionally, Jess Farber and Kiersten Washle from CMTA will share an example of a successful school retrofit project that will be directly applicable to existing schools.

U.S. DEPARTMENT OF ENERGY | Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

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Webinar Agenda

Time	Title	Speakers
Welcome and Opening Remarks		
[5 minutes] 10:00 - 10:05 AM PT 1:00 - 1:05 PM ET	-Introduction to the Efficient and Healthy Schools Campaign (EHSC) -EHSC 2022/23 new recognition program	Alexandra (Allie) Johnson, Senior Research Associate, Lawrence Berkeley National Laboratory (LBNL)
Presentations: Decarbonization		
[30 minutes] 10:05 - 10:35 AM PT 1:05 - 1:35 PM ET	Decarbonization resources for existing schools: -Tools and guidance -Practical examples	Paul Torcellini, Principal Engineer, National Renewable Energy Laboratory (NREL)
[10 minutes] 10:35 - 10:45 AM PT 1:35 - 1:45 PM ET	School retrofit project example	Jess Farber, PE, WELL AP, CMTA and Kiersten Washle, CEM, LEED Green Associate, CMTA
Q&A and Closing		
[10 minutes] 10:45 - 10:55 AM PT 1:45 - 1:55 PM ET	Q&A section: -Please use chat or Q&A function -Direct all unanswered questions to EHSC@lbl.gov	Allie Johnson, LBNL
[5 minutes] 10:55 - 11:00 AM PT 1:55 - 2:00 PM ET	Closing remarks: -More helpful resources for school districts -Webinar series for Recognition with New Buildings Institute	Allie Johnson, LBNL

Speaker Bios

Paul Torcellini is a Principal Engineer for commercial buildings research at the National Renewable Energy Laboratory (NREL). Paul is a key contributor in the development of the Advanced Energy Design Guides (ASHRAE/AIA/IES/USGBC) including chairing the technical committees that produce the zero energy AEDGs including the guide for K-12 schools. Paul has been at NREL for 28 years and is a registered Professional Engineer holding a PhD from Purdue University. He is an ASHRAE Fellow and ASHRAE Distinguished Lecturer. Paul has authored or co-authored more than 50 papers and articles related to energy efficiency and zero-energy commercial buildings.

Jess Farber, PE, WELL AP: Mr. Farber is a Vice President at CMTA. He graduated from the Georgia Institute of Technology (Georgia Tech) with a Bachelor Degree in Mechanical Engineering. He co-leads CMTA's Boston office and has a reputation of providing excellent service to his clients and is well respected for his responsiveness to project related issues. He has 28 years of mechanical engineering experience and CMTA's national expertise in high performance design including geothermal and net-zero design.

Kiersten Washle, CEM, LEED Green Associate: Ms. Washle is a Building Science Engineer. She supports HVAC systems and design primarily in energy modeling and with LEED. She is a graduate of George Washington University where she holds a Master Degree in Engineering Management. Ms. Washle is passionate about sustainability in the built environment and WELL building standards for healthy buildings. She brings tremendous passion to supporting decarbonatization and electrification of new and existing buildings.

Alexandra (Allie) Johnson is a Senior Research Associate in the Indoor Environment Group at Lawrence Berkeley National Laboratory. She has a BSChE in Chemical Engineering and a Masters of Public Health with an emphasis in epidemiology and biostatistics. Alexandra previously worked as an engineer in industry and energy before moving into research within the field of environmental health sciences. While at Berkeley Lab, her focus has been on air quality in various indoor environments.